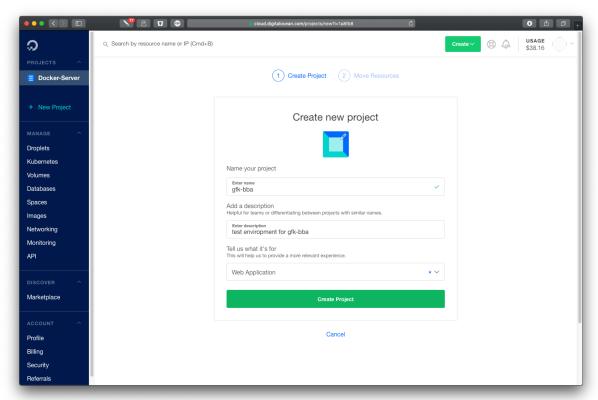
Setup GfK-BBA using Docker on a blank server

For this example we use Digital-Ocean, but any hosting provider should be fine.

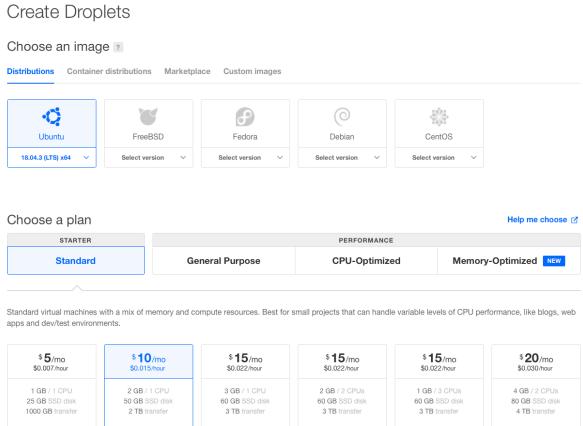
In Digital Ocean it's best practice to create a project first and then put resources in this project (a small virtual server "droplet" is all we need)



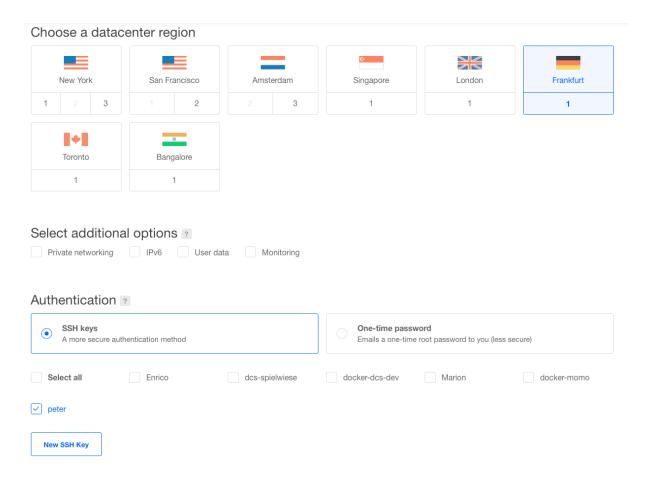
Next step: we create a droplet (a virtual server)



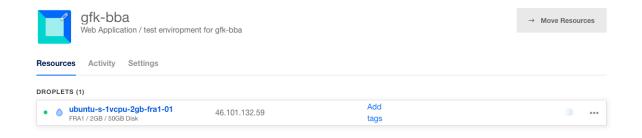
Here we choose a cheap (10\$/month) server with ubuntu 18.04 / 2 GB RAM and 1 CPU



Make sure the server is in Germany (or at least Europe) and that you can use your SSH key to login



After a minute or two we have the server up and running. Copy the ip address (in my case 46.101.132.59)



Now copy the docker-compose.yml file to the server

scp PATH_TO_FILE/docker-compose.yml root@SERVER IP ADDRESS:/root/
or in my example

 $\verb|scp|/Users/peterdickten/versioned/gfk-bba-mono/backend/docker-compose.yml| \\ \verb|root@46.101.132.59:/root/|$

```
root@ubuntu-s-1vcpu-2gb-fra1-01: ~ (bash)

Peters-MacBook-Pro15:aim-kalkulatoren-crown peterdickten$ scp /Users/peterdickten/versioned/gfk-bba-mono/backend/docker-compose.yml root@46.101.132.59:/home-root docker-compose.yml

100% 268 21.2XB/s 00:00

Peters-MacBook-Pro15:aim-kalkulatoren-crown peterdickten$
```

If the connect fails, make sure that you provided your public SSH key to your hosting provider

Login to the server:

ssh root@SERVER_IP_ADDRESS
or in my example

ssh root@46.101.132.59

```
root@ubuntu-s-1vcpu-2gb-fra1-01: ~ (ssh)

Last login: Thu Oct 17 12:48:01 on ttys008

Peters-MacBook-Pro15:aim-kalkulatoren-crown peterdickten$ ssh root@46.101.132.59

The authenticity of host '46.101.132.59 (46.101.132.59)' can't be established.

ECDSA key fingerprint is SHA256:JTthXVor94SbsClvRBrcN2jK2jvF38m9klIgoZOsjhs.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '46.101.132.59' (ECDSA) to the list of known hosts.

Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-58-generic x86_64)
```

Now we need docker + docker-compose on that server

apt-get update && apt-get install docker && apt-get install docker-compose

```
root@ubuntu-s-1vcpu-2gb-fra1-01: ~ (ssh)

root@ubuntu-s-1vcpu-2gb-fra1-01:~# apt-get update && apt-get install docker && apt-get install docker-compose

Get:1 http://mirrors.digitalocean.com/ubuntu bionic InRelease [242 kB]

Hit:2 http://security.ubuntu.com/ubuntu bionic-security InRelease

Hit:3 http://mirrors.digitalocean.com/ubuntu bionic-updates InRelease

Hit:4 http://mirrors.digitalocean.com/ubuntu bionic-backports InRelease

Fetched 242 kB in 1s (459 kB/s)

Reading package lists... Done

Reading package lists... Done

Building dependency tree
```

(and much more ...)

Now we have all what we need to run the application

```
docker-compose up -d && docker-compose logs -f
```

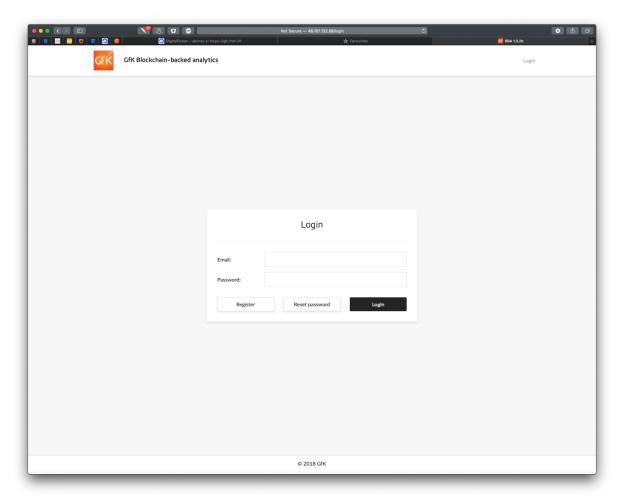
This will start the application in the background and show the logs. You can stop the log output using [Ctrl] + [C]

```
root@ubuntu-s-lvcpu-2gb-frc1-81:-# docker-compose up -d && docker-compose logs -f
Pulling dotabase (dcsfuerth/gfk-bba-db:latest)...

latest: Pulling from dcsfuerth/gfk-bba-db
89133971fff; Pull complete
6511575 fcc1e: Pull complete
6511575 fcc1e: Pull complete
6511575 fcc1e: Pull complete
6504092511: Pull complete
65040992511: Pull complete
6504099676645c: Pull complete
6504099676645c: Pull complete
6504099676645c: Pull complete
650409676665c: Pull complete
650409676666c: Pull complete
650409676666c: Pull complete
650409676665c: Pull complete
650409676665c: Pull complete
6507661766c: Pull complete
6507661766c: Pull complete
6507661766c: Pull complete
75078617660c: Pull complete
```

The last line "Nest application successfully started" show that the app is running.

You can see the application running in the browser at $\underline{\text{http://SERVER IP ADDRESS}}$ or in my case $\underline{\text{http://46.101.132.59}}$



Feel free to add a domain and/or SSL